

$$f(x) = -x + 2$$

$$f(1) = -1 + 2 = 1 \quad (1, 1)$$

$$f(2) = -2 + 2 = 0 \quad (2, 0)$$

32.  $m = 1$   
 $b = 0$

$$-2 \leq x < 1$$

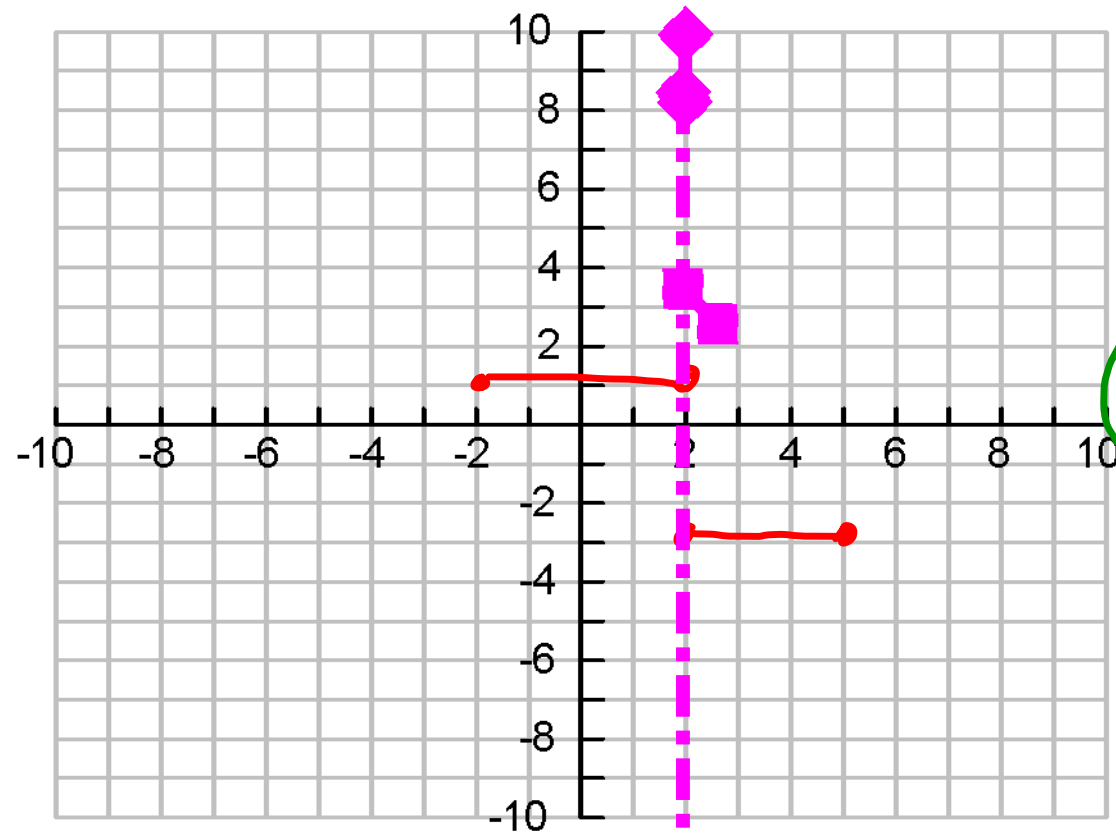
$$f(x) = \begin{cases} x \end{cases}$$

$$-x + 2$$

$m = -1$   
 $b = 2$

$$1 \leq x \leq 2$$

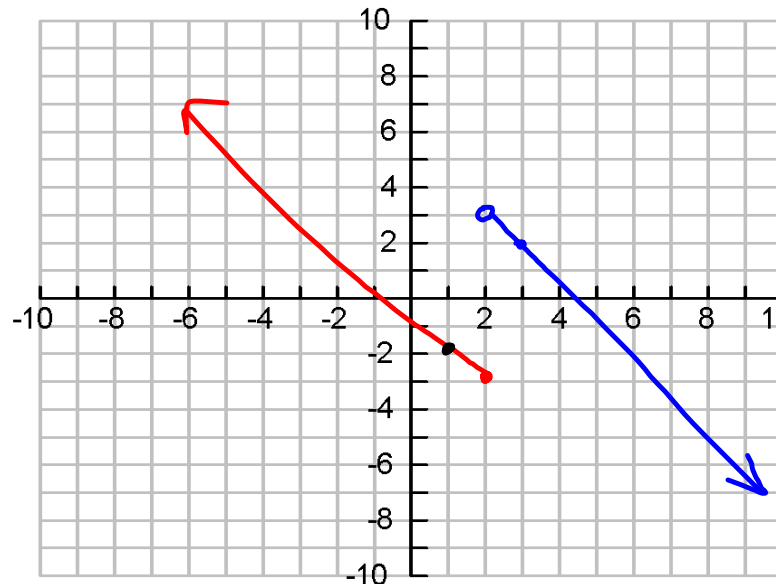
closed



34. constant function  
horizontal line

$$f(x) = \begin{cases} 1 & -2 \leq x < 2 \\ -3 & 2 < x \leq 5 \end{cases}$$

is a function, passes the  
vertical line test



linear function  
 $m = -1$   
 $b = -1$

$$f(x) = \begin{cases} -1-x & \text{if } x \leq 2 \\ 5-x & \text{if } x > 2 \end{cases}$$

linear function  
 $m = -1$   
 $b = 5$

$$f(x) = -1 - x$$

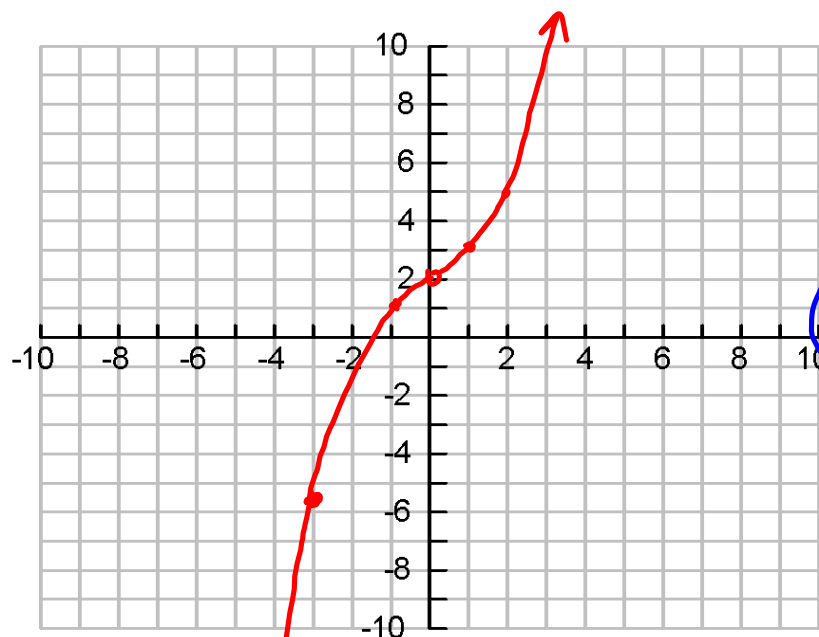
$$f(2) = -1 - 2 = -3 \quad (2, -3)$$

$$f(1) = -1 - 1 = -2 \quad (1, -2)$$

$$f(x) = 5 - x$$

$$f(2) = 5 - 2 = 3 \quad (2, 3)$$

$$f(3) = 5 - 3 = 2 \quad (3, 2)$$



38. quadratic  
function  
parabola

$$h(x) = \begin{cases} -x^2 + 2 & x < 0 \\ x^2 + 2 & x > 0 \end{cases}$$

shift up 2

reflect  
over  
x-axis

$$h(x) = -x^2 + 2$$

$$h(0) = -0 + 2 = 2 \quad (0, 2)$$

$$h(-1) = -(-1)^2 + 2 = 1 \quad (-1, 1)$$

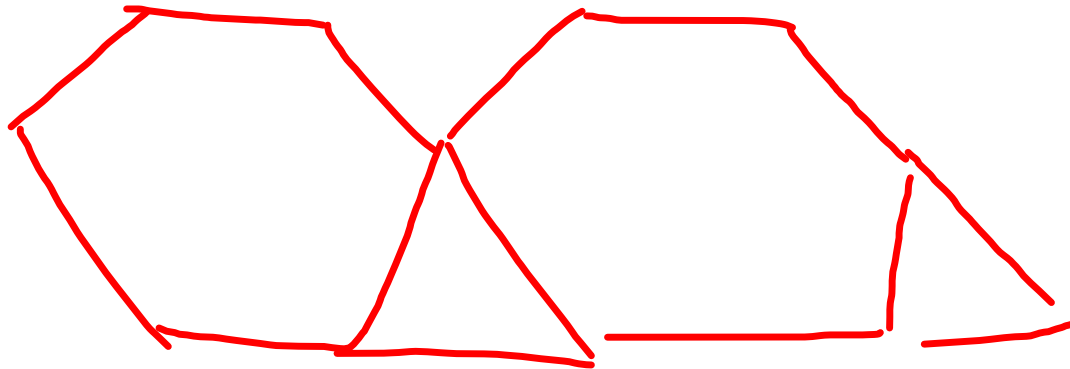
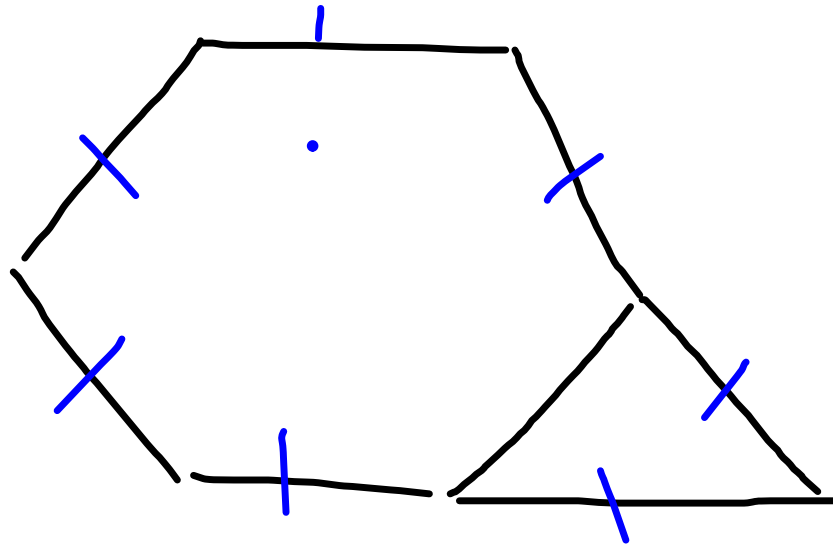
$$h(x) = x^2 + 2$$

$$h(1) = 1^2 + 2 = 3 \quad (1, 3)$$

$$-1 \leq x < 2$$

$$-1 \leq x \text{ and } x < 2$$

$$x \geq -1 \text{ and } x < 2$$



Perimeter

1- Hexagon =

2- Hex-Tr

3 Hex-Tri-Hex

4

5

⑦